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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/647,266	08/26/2003	Howard R. Levin	JHN-3659-71	2067	
23117 NIXON & VA	7590 01/08/2008 NDERHYE, PC			INER	
901 NORTH C	SLEBE ROAD, 11TH FLO	OOR		LANIE JO	
ARLINGTON	, VA 22203		ART UNIT	PAPER NUMBER	
	•		3761		
	•		MAIL DATE	DELIVERY MODE	
			01/08/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
r	10/647,266	LEVIN ET AL.	
Office Action Summary	Examiner	Art Unit	<del> </del>
	Melanie J. Hand	3761	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING  Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MON tatute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 1     This action is <b>FINAL</b> . 2b)⊠      Since this application is in condition for allocation accordance with the practice und	This action is non-final. owance except for formal mat	• •	s
Disposition of Claims			
4) Claim(s) 53-60 is/are pending in the applic  4a) Of the above claim(s) is/are with  5) Claim(s) is/are allowed.  6) Claim(s) 53-60 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction as  Application Papers	ndrawn from consideration.  and/or election requirement.		
<ul><li>9)  The specification is objected to by the Exar</li><li>10)  The drawing(s) filed on is/are: a) </li></ul>	-	by the Examiner	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(c	d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	application No received in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)	· —	Summary (PTO-413)	
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>Information Disclosure Statement(s) (PTO/SB/08)         Paper No(s)/Mail Date     </li> </ol>	, —	s)/Mail Date nformal Patent Application 	

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 17, 2007 has been entered.

# Response to Arguments

2. Applicant's arguments with respect to claims 53-59 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 53 and 59 are rejected under 35 U.S.C. 102(b) as being anticipated by Prosl et al (U.S. Patent No. 5,989,206).

With respect to **claim 53:** Prosl teaches an extracorporeal method for treating blood from a patient comprising: a. inserting a withdrawal needle in a surface peripheral vein in an extremity

of the patient; b.applying a suction to the withdrawal needle via suction line 55 to draw blood from the surface peripheral vein through the withdrawal needle; e. drawing blood from the reservoir of blood into the withdrawal catheter 22 and into the withdrawal blood tube (suction line 55) of an extracorporeal blood circuit, and f. applying a suction pressure to the withdrawal blood tube 55 to cause blood to flow into the blood withdrawal catheter 22. (Figs. 2,3, Col. 2, line 53 – Col. 3, line 9) Steps c and d flow inherently and necessarily from the teachings of Prosl since the steps of determination are based upon an arbitrary predetermined threshold amount of blood that the method of Prosl is capable of yielding.

With respect to **claim 59:** With regard to the limitation "the treatment is ultrafiltration", the method of Prosl meets all of the remaining limitations and is thus inherently capable of being practiced as an ultrafiltration treatment (see also Col. 3, lines 6-11).

### Claim Rejections - 35 USC § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 54-58 and 60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prosl et al ('206).

With respect to **claim 54:** Prosl does not teach that the needle has a length of 35 cm to 40 cm. However since Prosl teaches that the needle is inserted into a vena cava 45 (Col. 2, lines 55-63), which is disclosed by applicant as a point of entry and requires a longer needle due to the vena cava's distal location with respect to the skin surface of the patient. Thus it would be obvious to one of ordinary skill in the art to modify the method of Prosl such that the needle has

a length of 35 cm to 40 cm with a reasonable expectation of success to ensure that the needle has sufficient length to perform the method of Prosl using the vena cava.

With respect to **claim 55:** The method of Prosl does not explicitly teach that the method further comprises after step (a) and before step (b) a determination that an amount of blood being withdrawn is insufficient for treating the blood because a blood flow rate through the needle is less than 40 milliliter per minute. However, since this determination is an arbitrary predetermined flow rate capable of being achieved by a patient and the method of Prosl, the method of Prosl is also capable of yielding a determination based upon the arbitrary flow rate. Thus it would be obvious to one of ordinary skill in the art to modify the method of Prosl such that the method includes a determination that an amount of blood being withdrawn is insufficient for treating the blood because a blood flow rate through the needle is less than 40 milliliter per minute with a reasonable expectation of success to prevent undesired effects of the execution of the instant method.

With respect to **claim 56:** With regard to the limitation "the treatment is ultrafiltration", the method of Prosl meets all of the remaining limitations and is thus inherently capable of being practiced as an ultrafiltration treatment (see also Col. 3, lines 6-11) Prosl does not explicitly teach that the catheter is positioned in the vein for a period of at least four hours. However, it would be obvious to one of ordinary skill in the art to modify the method of Prosl such that the catheter is positioned in the vein for a period of at least four hours with a reasonable expectation of success.

With respect to **claim 57:** Prosl teaches hemodialysis performed on the patient and thus teaches that the instant treatment is hemofiltration. (Col. 3, lines 10,11) Prosl does not explicitly teach that the catheter is positioned in the vein for a period of at least four hours. The time duration for positioning the catheter in the vein is considered herein to be a result-effective variable, as an increased time duration implies an increased volume of blood that is filtered, and thus an increased potential for proper treatment. It would be obvious to one of ordinary skill in the art to modify the method of Prosl such that the catheter is positioned in the vein for a period of at least four hours with a reasonable expectation of success to process a greater amount of a patient's blood to impart a greater benefit from the filtration procedure. It has been held that the discovery of an optimum value of a result-effective variable in a known process is ordinarily within the skill of the art. See *In re Boesch and Slaney*, 205 USPQ 215 (C.C.P.A. 1980)

With respect to **claim 58:** Prosl teaches a dialysis session and thus teaches that the instant treatment is dialysis. (Col. 3, lines 6-9) Prosl does not explicitly teach that the instant catheter is positioned in the vein for a period of at least four hours. The time duration is considered herein to be a result-effective variable, as an increased time duration implies an increased volume of blood that is filtered and treated, and thus an increased potential for proper treatment. It would be obvious to one of ordinary skill in the art to modify the method of Prosl such that the catheter is positioned in the vein for a period of at least four hours with a reasonable expectation of success to process a greater amount of a patient's blood to impart a greater benefit from the dialysis procedure. It has been held that the discovery of an optimum value of a result-effective variable in a known process is ordinarily within the skill of the art. See *In re Boesch and Slaney*, 205 USPQ 215 (C.C.P.A. 1980)

With respect to **claim 60:** Prosl teaches inserting the withdrawal catheter 22 (part of the suction line) in the vascular system of the patient, but does not explicitly teach inserting the catheter in a surface peripheral vein 15 is in an arm of the patient. (Col. 16, lines 45-49) However, Prosl teaches other existing dialysis methods, specifically the arteriovenous fistula in which a catheter is inserted into a vein in a patient's arm. Since Prosl teaches that this alternate method of dialysis to the instant method is known, it would be obvious to one of ordinary skill in the art to modify the method of Prosl such that the withdrawal catheter 22 is inserted into a surface vein in a patient's arm with a reasonable expectation of success as an alternate means for creating the dialysis circuit. (Col. 2, lines 16-20)

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie J. Hand whose telephone number is 571-272-6464. The examiner can normally be reached on Mon-Thurs 8:00-5:30, alternate Fridays 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/647,266

Art Unit: 3761

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melanie J Hand Examiner Art Unit 3761 Page 7

December 29, 2007

TATYANA ZALUKAEVA SUPERVISORY PRIMARY EXAMINER